



# **physics<sup>®</sup>** forceps

**Atraumatic extractions utilizing  
leverage and biomechanics**

**simple | predictable | non-surgical**

**GOLDEN**  
Dental Solutions  
...Inventors of the Physics Forceps

# physics<sup>®</sup> forceps

The Physics Forceps are a unique type of extraction system that provides:

- Predictable and efficient extractions in less than 4 minutes
- Atraumatic extractions where you preserve the bone
- Elimination of root tip fractures
- No need for elevating or laying a flap
- Very little operator movement necessary

The unique design of the Physics Forceps allows for light but constant pressure to be applied to the tooth which leads to chemical changes in the PDL and subsequent release of the Sharpey's fibers. Once the tooth releases, it can be removed simply with a rongeur or even just your fingers.

## About the Physics Forceps

The Physics Forceps are an innovative design that provides a simple mechanical advantage by employing first-class lever mechanics. Utilizing the patented "beak and bumper" technique, you can simply and predictably extract virtually any tooth in any condition, while preserving the buccal bone and socket. The beak of the Physics Forceps is designed to apply controlled pressure parallel to the long axis of the root. The bumper acts as a simple fulcrum or pivot point. While traditional instruments grasp, squeeze and twist, the Physics Forceps employs a slow, steady force that releases the tooth from the alveolar bone.

## Why the Physics Forceps Are So Effective

By combining the biomechanical advantages of a first-class lever with the biochemical reaction that is occurring, extracting teeth has never been easier than with the Physics Forceps. When the periodontal ligament is traumatized with forceps or elevators, hyaluronidase is released. Once this chemical breakdown of the periodontal ligament by hyaluronic acid is sufficient, the tooth is released from its attachment to the alveolus and can be removed.

This explains why the Physics Forceps with its steady unrelenting trauma to the periodontal ligament quantitatively creates a greater release of hyaluronidase in a shorter period of time than traditional forceps or elevator extractions because the trauma from those techniques is intermittent. This is what makes the Physics Forceps more efficient, faster, and less traumatic to the alveolar bone.<sup>1</sup>

## Preserving the Bone

By utilizing the Physics Forceps Technique (no squeezing, applying constant steady pressure with the wrist only and using the bumper as a pivot/fulcrum), it is uncommon to break the buccal bone or cortical plate. Think of the Physics Forceps as an elevator – all you want the instrument to do is move the tooth 1-3mm through constant steady pressure allowing the PDL to separate from the tooth. Once this chemical breakdown of the periodontal ligament by hyaluronic acid is sufficient, the tooth elevates coronally. You are now finished with the Physics Forceps. You can deliver the loose tooth with a traditional instrument. Also, the bumper is a compressive force that is holding the bone in place. Even though you are not squeezing, it is supporting the bone.



Dentistry courtesy of Dr. Ara Nazarian.

# GOLDEN

Dental Solutions

<sup>1</sup>Thomas C. Abrahamsen, DDS, MS, FACP *Biochemistry of Tooth Extractions*, 2010.

# Instructions For Use

## Standard Physics Forceps Set



**Step 1**  
Separate the gingival attachment from the tooth.



**Step 2**  
With the handles opened wide, set the beak into the depth of the lingual sulcus as far as possible on solid root surface. A secure purchase point on solid root surface is critical.



**Step 3**  
Set the bumper perpendicular to the tooth about the level of the mucogingival junction. Hold that position securely. STOP! DO NOT SQUEEZE the handles.



**Step 4**  
Without squeezing the handles or moving your arm, begin to apply a steady, very slow rotational force towards the buccal. As soon as you get resistance, STOP and hold the instrument in that position. Be patient as this can take 2-3 minutes with no movement. This force, or creep, will continue to build, allowing the hyaluronic acid to build and causing the PDL to release.



**Step 5**  
As soon as the tooth moves 1-3mm, you are finished with the Physics Forceps.



**Step 6**  
Deliver the tooth with a conventional instrument such as a hemostat, rongeurs or conventional forceps.

## Posterior Physics Forceps Set



**Step 1**  
Separate the gingival attachment from the tooth.



**Step 2**  
(For Upper Molars Only) – use the GOLDEN|MISCH Distal Elevator (included in your kit) to separate the distal bone (including the tuberosity) from the tooth.



**Step 3**  
Use a flame-shaped diamond bur (GMX Flame Shaped Diamond G701 or G702 from GOLDEN|MISCH) to drill a trench on the lingual side of the tooth (at the expense of the tooth) just below the gumline to secure a solid purchase point with the beak.



**Step 4**  
Upper Molars – with the handles opened wide, place the bumper on the buccal surface at or about the mucogingival junction.  
  
Lower Molars – Place the beak first, then the bumper.



**Step 5**  
Set the beak into the depth of the lingual sulcus as far as possible on solid root surface. A secure purchase point on solid root surface is critical.



**Step 6**  
Using wrist movement only, apply constant steady pressure towards the buccal. Once you see the tooth move 1-3mm, you are finished with the Physics Forceps. Now deliver the tooth with a traditional instrument.

# physics forceps

## Standard Physics Forceps



Entire Set: \$1,585  
Individual Instrument: \$495 each

- 4 Physics Forceps Instruments
- Upper Right
  - Upper Left
  - Upper Anterior
  - Lower Universal
- 48 Bumper Guards  
Training DVD

Additional Bumper Guards:  
Box of 24 -\$16.95  
Box of 48 -\$29.95  
Box of 96 -\$49.95

## Posterior Physics Forceps



Entire Set: \$1,585  
Upper Set: \$990 Lower Set: \$990  
Distal Elevator: \$85 (included in entire set purchase)

- 4 Physics Forceps Instruments
- Upper Right
  - Upper Left
  - Lower Right
  - Lower Left
- Distal Elevator  
Training DVD  
48 Bumper Guards

Additional Bumper Guards  
(lower and upper):  
Box of 24 -\$16.95  
Box of 48 -\$29.95  
Box of 96 -\$49.95

## Pedodontic Physics Forceps



Entire Set: \$1,385  
Individual Instrument: \$495 each

- 4 Physics Forceps Instruments
- Upper Right
  - Upper Left
  - Upper Anterior
  - Lower Universal
- 48 Bumper Guards  
Training DVD

Additional Bumper Guards:  
Box of 24 -\$16.95  
Box of 48 -\$29.95  
Box of 96 -\$49.95

These industry leaders choose the Physics Forceps as their go-to instrument for extractions.



Dr. Richard Golden



Dr. Ara Nazarian



Dr. Louis Malmacher



Dr. Robert Fazio



Dr. Greg Folse



Dr. Tony Feck



Sally McKepezie



Dr. Thomas McGarry



Dr. Lorin Berland



Dr. Sonia Lezy



Dr. Mauro Fradeani



Dr. L. Stephen Buchanan



Dr. Arthur Kit Weathers



Dr. Jon Julian



Dr. Ryan Swain

Take advantage of our 90-day money back guarantee trial period. Give the Physics Forceps a try today and eliminate extraction frustration forever!



To view several live extractions, visit [www.physicsforceps.com](http://www.physicsforceps.com)

## Simple, Faster, Better

### GMX 69 Upper Root Tip Extractor



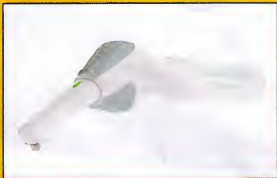
The GMX 69 is for atraumatically extracting upper root tips that are below the gumline. When you cannot access the tooth with the Physics Forceps, the GMX 69 can extract the tooth without laying a flap. By placing the buccal and lingual elevators between the gum and bone to the end of the root, you create space for the GMX 69 Forcep to slowly leverage the broken tooth/root tip out.

GMX 69 Kit includes:

GMX 69 Forcep, Lingual Elevator, Buccal Elevator

Price: \$395

### FlashMax Curing Light



The Power To Be Sure and Just One Second To Cure!  
The most powerful curing light on the planet!

#### Power

The FlashMax uses the very latest diode technology to emit monster amounts (4000 mW/cm2) of powerful light at useful wavelengths. With four distinct 15W high power diodes, a much broader spectrum of light is generated than with 1st generation LED curing lights.

#### Speed

No more waiting! The FlashMax is virtually instant curing! 3mm layers are cured in only 1 second!!! Ergonomic designed and manufactured in Denmark, the elegant FlashMax is extremely light-weight and designed for easy use in posterior regions of both the upper and lower arches.

#### Energy

Twice as powerful as most expensive and bulky plasma arc lights. Zero degree temperature increase within the pulp chamber as tested by the Dental Advisor (3 sec illumination).

Price: \$1,395

### Burs



#### G-701 Long Flamed Shaped Diamond Bur

The Long Flamed Shaped Diamond Bur is indicated to create a trench on the lingual side of the tooth to establish a better purchase point for the beak of the Physics Forceps. 10 per package. Price: \$49.95

#### G-702 Short Flamed Shaped Diamond Bur

The Short Flamed Shaped Diamond Bur is indicated to create a trench on the lingual side of the tooth to establish a better purchase point for the beak of the Physics Forceps. 10 per package. Price: \$49.95

#### G-709 Carbide Finishing Bur

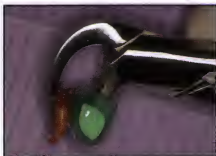
The Carbide Finishing Bur is indicated for finishing, smoothing or shaping composites. 10 per package. Price: \$69.95



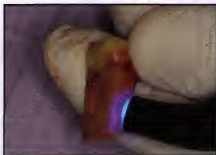
Perform difficult and multiple extractions automatically,  
predictably and non-surgically in a matter of minutes!



**Simplify Full Mouth Extractions Followed  
by Immediate Implant Placement**



**Easily Remove Teeth Cut-Down to the Gumline -  
No Crown, No Problem!**



**Vertical Fracture or Broken Teeth -No Problem!**

*Images provided by Dr. Ara Nazarian*

**Eliminate Extraction Frustration Forever!**

**physics**  
forceps

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tips and news. Physics Forceps by  
GoldenDentalSolutions



To view live extractions, visit the Physics  
Forceps channel.

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Dental Solutions



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